WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Thursday, March 11, 2004

Hide?	Set Name	Query	Hit Count
	DB = PGPB, 0	USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR =	YES; OP=OR
	L25	l21 and l22 and l23 and L24	3
	L24	118	33
	L23	116	36
	L22	113	8
	L21	112	97
	L20	L19	1
	DB = USPT;	PLUR=YES; OP=OR	
	L19	(terminating same link\$1)and L18	1
	L18	application\$1 and L17	33
	L17	link\$1 and interface\$1 and L16	34
	L16	reliability and 112	36
	L15	5644715.pn.	1
	L14	5995490.pn.	1
	L13	12 and L12	8
	L12	110 and L11	97
	L11	17 or 18 or 19	5707
	L10	probabilit\$3 and 11	1446
	L9	718/104-106.ccls.	1140
	L8	709/225-229.ccls.	3384
	L7	370/401.ccls.	1420
	L6	709/200-203.ccls.	3593
	L5	6570867.pn.	1
	L4	6430154.pn.	1
	L3	6519254.pn.	1
	L2	L1.ti.	184
	L1	(quality adj2 service) or (QOS)	7064

END OF SEARCH HISTORY



Hide litems

Restore Clear Cancel

DATE: Thursday, March 11, 2004

Hide?	Set Name	-	Hit Count
	•	USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=YI	-
	L25	l21 and l22 and l23 and L24	3
	L24	118	33
	L23	116	36
	L22	113	8
	L21	112	97
	L20	L19	1
_	•	PLUR=YES; OP=OR	
	L19	(terminating same link\$1)and L18	1
	L18	application\$1 and L17	33
	L17	link\$1 and interface\$1 and L16	34
	L16	reliability and 112	36
	L15	5644715.pn.	1
	L14	5995490.pn.	1
	L13	reliability and 112 5644715.pn. 5995490.pn. 12 and L12 110 and L11 17 or 18 or 19 probabilit\$3 and 11 718/104-106.ccls. 709/225-229.ccls.	8
	L12	110 and L11	97
	L11	17 or 18 or 19	5707
	L10	probabilit\$3 and 11	1446
	L9	718/104-106.ccls.	1140
	L8	709/225-229.ccls.	3384
	L7	370/401.ccls.	1420
	L6	709/200-203.ccls.	3593
	L5	6570867.pn.	1
	L4	6430154.pn.	1
	L3	6519254.pn.	1
	L2	L1.ti.	184
	L1	(quality adj2 service) or (QOS)	7064

END OF SEARCH HISTORY

Hit List

Clear Generale Collection Print Five Refs Bland Refs Generale OACS

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 6640248 B1

Using default format because multiple data bases are involved.

L25: Entry 1 of 3

File: USPT

Oct 28, 2003

US-PAT-NO: 6640248

DOCUMENT-IDENTIFIER: US 6640248 B1

TITLE: Application-aware, quality of service (QoS) sensitive, media access control (MAC) layer

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Jorgensen; Jacob W.

Folsom

CA

US-CL-CURRENT: 709/226; 370/328, 370/338, 709/223, 709/229, 709/235

Full Title Citation Front Review Classification Date Reference Claims KWC Draw. Desc Image

☐ 2. Document ID: US 6223222 B1

Using default format because multiple data bases are involved.

L25: Entry 2 of 3

File: USPT

Apr 24, 2001

US-PAT-NO: 6223222

DOCUMENT-IDENTIFIER: US 6223222 B1

TITLE: Method and system for providing quality-of-service in a data-over-cable system using

configuration protocol messaging

DATE-ISSUED: April 24, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Fijolek; John G.

Naperville

 ${ t IL}$

Beser; Nurettin B.

Evanston

IL

US-CL-CURRENT: 709/227; 370/236

Full Title Citation Front Review Classification Date Reference Sequences Atlactments Claims KWC Draw Desc Image

☐ 3. Document ID: US 6154778 A

Using default format because multiple data bases are involved.

Page 2 of 2

L25: Entry 3 of 3 File: USPT Nov 28, 2000

US-PAT-NO: 6154778

DOCUMENT-IDENTIFIER: US 6154778 A

TITLE: Utility-based multi-category quality-of-service negotiation in distributed systems

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Koistinen; Jari Palo Alto CA Seetharaman; Aparna Redwood City CA Kirshenbaum; Evan R. Mountain View CA

US-CL-CURRENT: 709/228; 370/230, 370/395.2, 370/395.21, 709/227, 709/239, 709/240

Full Title Citation Front Review Classific	ation Date R	leference like 19.	(स्टिट्स्टर हुई) इस्टिट्स	Face Property	Claims KWO	Drawn Desc	Imag
Clear Generate Collection	Print	Fwd Refs	Bk	wd Refs	Gener	ate OACS	
Terms				Docui	nents		
L21 and L22 and L23 and L24						3	

Display Format: - Change Format

Previous Page Next Page Go to Doc#

©enerate Collection Print

L13: Entry 6 of 8 File: USPT Nov 28, 2000

US-PAT-NO: 6154778

DOCUMENT-IDENTIFIER: US 6154778 A

TITLE: Utility-based multi-category quality-of-service negotiation in distributed systems

DATE-ISSUED: November 28, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Koistinen; Jari Palo Alto CA Seetharaman; Aparna Redwood City CA Kirshenbaum; Evan R. Mountain View CA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Hewlett-Packard Company Palo Alto CA 02

APPL-NO: 09/ 081265 [PALM]
DATE FILED: May 19, 1998

INT-CL: [07] $\underline{G06}$ \underline{F} $\underline{13/00}$, $\underline{G06}$ \underline{F} $\underline{15/16}$, $\underline{H04}$ \underline{Q} $\underline{11/00}$

US-CL-ISSUED: 709/228; 709/227, 709/240, 709/239, 370/230, 370/395

US-CL-CURRENT: 709/228; 370/230, 370/395.2, 370/395.21, 709/227, 709/239, 709/240

Search Selected

FIELD-OF-SEARCH: 709/228, 709/203, 709/227, 709/240, 709/241, 709/223, 709/224, 709/239,

370/395, 370/409, 370/230, 370/465

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search ALL

Clear

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5065393	November 1991	Sibbitt et al.	70/58.2
5408465	April 1995	Gusella et al.	370/17
5491797	February 1996	Thompson et al.	709/200
5644715	July 1997	Baugher	395/200.04
5674003	October 1997	Andersen et al.	364/514R
5732078	March 1998	Arango	370/355
5802058	August 1999	Harris et al.	370/410
5832197	November 1998	Houji	714/4
5892754	April 1999	Kompella et al.	370/236

T	D '	
Record	lich	lay Form
KCCOIU	יטפוע	iav i Oiiii

	<u>5898668</u>	April 1999	Shaffer	370/230
	<u>5946311</u>	August 1999	Alexander, Jr. et al.	370/395
	5948069	September 1999	Kitai et al.	709/240
П	5995490	November 1999	Shaffer et al.	370/260

ART-UNIT: 277

PRIMARY-EXAMINER: Burgess; Glenton B.

ASSISTANT-EXAMINER: Salad; Abdullahi E.

ABSTRACT:

In a distributed system, a method and system for negotiating a multi-category Quality-of-Service (QoS) agreement between a client and a server includes a client agent enabled to calculate an expected utility to a client of multiple multi-category QoS specifications. The client agent obtains the QoS specifications by transmitting a QoS specification request to a server agent or a broker. The expected utility calculation, based on a probabilistic estimate of QoS levels included in the QoS specifications, enables the client agent to distinguish the QoS specifications of greater value from those of lesser value. The client agent selects at least one of the QoS specifications to be included into an offer for a QoS agreement based on the expected utility calculation. In a preferred embodiment, the client agent selects the QoS specifications determined to be most valuable to the client. The offer is transmitted to the server agent to request a service provided by a server at QoS levels represented by the selected QoS specifications. After transmitting the offer, the client monitors a connection to the server agent for either an acceptance, a rejection, or a counteroffer to the offer. Communication between the client agent and the server agent conforms to a negotiation protocol which provides a set of rules for transmission of negotiation messages.

19 Claims, 13 Drawing figures

Generate Collection Print

L2: Entry 6 of 184

File: USPT

Feb 10, 2004

US-PAT-NO: 6691148

DOCUMENT-IDENTIFIER: US 6691148 B1

TITLE: Framework for providing quality of service requirements in a distributed object-oriented

computer system

DATE-ISSUED: February 10, 2004

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Zinky; John A. Cambridge MA
Schantz; Richard R. Sharon MA
Bakken; David E. Londonderry NH
Loyall; Joseph P. Tewksbury MA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Verizon Corporate Services Group Inc. New York NY 02
Genuity Inc. Burlington MA 02

APPL-NO: 09/ 220511 [PALM]
DATE FILED: December 24, 1998

PARENT-CASE:

RELATED APPLICATIONS This application is related to and claims the benefit of the filing date of U.S. provisional application, Ser. No. 60/077,870, filed Mar. 13, 1998, which is hereby incorporated by reference. Also, this application is related to applications, Ser. No. 09/220,716, now U.S. Pat. No. 6,480,879, and Ser. No. 09/220,530, filed concurrently herewith and hereby incorporated by reference.

INT-CL: [07] $\underline{G06}$ \underline{F} $\underline{15/16}$

US-CL-ISSUED: 709/201; 709/221, 709/227 US-CL-CURRENT: <u>709/201</u>; <u>709/221</u>, <u>709/227</u>

FIELD-OF-SEARCH: 370/270, 707/500.1, 709/202, 709/224, 709/226, 709/220, 709/229, 709/316,

709/201, 709/221, 709/227

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected	Search ALL	Clear

PAT-NO ISSUE-DATE PATENTEE-NAME US-CL

5713043 January 1998 Baugher et al. 707/500.1

5898668 April 1999 Shaffer 370/230

Dagard	Diami	ay Form
Record	DISDI	ay rollii

5944795	August 1999	Civanlar	709/227
6003079	December 1999 .	Friedrich et al.	709/224
6049819	April 2000	Buckle et al.	709/202
6088732	July 2000	Smith et al.	709/229
6154776	November 2000	Martin	709/226
6226273	May 2001	Busuioc et al.	370/270
6252857	June 2001	Fendick et al.	370/254
6278693	August 2001	Aldred et al.	370/252
<u>6282581</u>	August 2001	Moore et al.	709/316
6330586	December 2001	Yates et al.	709/201
<u>6570867</u>	May 2003	Robinson et al.	370/351

OTHER PUBLICATIONS

David E. Bakken, On Specification, Metadata, and Binding of Multi-Property quality of Service, Proc. of 6.sup.th Intl. Working Conference on Dependable Computing for Critical Applications, IFIP, Grainau, Germany, Mar. 1997, 141-143.

David E. Bakken, Object-Oriented QoS: Some Research Issues, DARPA QoSA Meeting Presentation, 37.sup.th IETF Meeting, San Jose, CA, Dec. 1996.

David E. Bakken et al., QoS Issues for Wide-Area CORBA-Based Object Systems, Proc. of 2.sup.nd Intl. Workshop on Object-Oriented, Real-Time Dependable Systems (WORDS 96), IEEE, Feb. 1996, 110-112.

Richard E. Schantz et al., Distributed Objects with Quality of Service: An Organizing Architecture for Integrated Systems Properties, Proc. of the 3.sup.rd Intl. Workshop on Object-Oriented, Real-Time, Dependable Systems (Words 97), IEEE, Feb. 1997.

John Zinky, Overview of Quality of Service for Distributed Objects, Proc. of 5.sup.th Dual Use Applications and Technologies Conference, IEEE, Utica, NY, May 22-25, 1995, 510-515.

David E. Bakken, Object-Oriented QoS for C2 Adaptivity and Evolvability, DARPA Workshop on Security Technology for Next-Generation C2 Systesm, Institute for Defense Analyses, Alexandria VA, Jul. 29-30, 1996.

Steve Vinoski et al., CORBA: Integrating Diverse Applications Within Distributed Heterogeneous Environemetns, IEEE Communications Magazine, vol. 35, No. 2, Feb. 1997.

John A. Zinky, Architectural Support for Quality of Service for CORBA Objects, Theory and Practice of Object Systems, Jan. 1997.

Robert Orfali et al., Chapter 2, The Essential Distributed Objects Survival Guide, John Wiley & sons, 1996, 24-29.

Robert Orfali et al., Chapter 4, The Essential Distributed Objects Survival Guide, John Wiley & sons, 1996, 68-90.

ART-UNIT: 2858

PRIMARY-EXAMINER: Le; N.

ASSISTANT-EXAMINER: Benson; Walter

ATTY-AGENT-FIRM: Suchyta; Leonard Charles Weixel; James K.

ABSTRACT:

A system assures quality of service provided by a distributed network having at least one object. The system creates a contract that stores levels of quality of service offered by the network, determines a quality of service required by the object, and evaluates the contract to select a level of quality of service that corresponds to a current quality of service provided by the network. The system then compares the current quality of service to the required quality of service, and adjusts the current quality of service to obtain the required quality of service when the current quality of service fails to satisfy the required quality of service.

Generate Collection Print

L2: Entry 4 of 184

File: USPT

Feb 17, 2004

US-PAT-NO: 6693912

DOCUMENT-IDENTIFIER: US 6693912 B1

TITLE: Network interconnecting apparatus and active quality-of-service mapping method

DATE-ISSUED: February 17, 2004

INVENTOR - INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Wang; Cai Dong

Tokyo

JР

ASSIGNEE-INFORMATION:

NAME

CITY

ZIP CODE STATE

COUNTRY

TYPE CODE

Oki Electric Industry Co., Ltd.

Tokyo

JΡ

03

APPL-NO: 09/ 542872 [PALM] DATE FILED: April 4, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY

APPL-NO

APPL-DATE

JP

11/157619

June 4, 1999

INT-CL: [07] <u>H04</u> <u>L</u> <u>12/66</u>

US-CL-ISSUED: 370/401; 370/466

US-CL-CURRENT: / 370/401/, 370/466

FIELD-OF-SEARCH: 370/389, 370/395.1, 370/395.21, 370/395.6, 370/401, 370/402, 370/404, 370/466, 709/230, 709/246, 709/249

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search ALL

Clear

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5701465	December 1997	Baugher et al.	707/10
6175569	January 2001	Ellington et al.	370/401
6223222	April 2001	Fijolek et al.	709/227
6415313	July 2002	Yamada et al.	709/200
6430154	August 2002	Hunt et al.	370/230.1
<u>6519254</u>	February 2003	Chuah et al.	370/389

Search Selected

ART-UNIT: 2662

PRIMARY-EXAMINER: Ngo; Ricky

ASSISTANT-EXAMINER: McLoughlin; Michael I

ATTY-AGENT-FIRM: Venable LLP Sartori; Michael A.

ABSTRACT:

When a connection passes through two communication networks that guarantee quality of service in different ways, an active packet is sent from one network to the other. Quality of service in the one network is mapped to quality of service in the other network by execution of a program included in the active packet, at the entry node of the other network. End-to-end quality of service is thereby guaranteed, unnecessary exchanges of quality-of-service information are avoided, and each network can modify its quality-of-service practices at its own convenience.

22 Claims, 13 Drawing figures